

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



22 APR 2005

(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037999 A2

(51) International Patent Classification⁷: C12N (74) Agent: EVANS, Joseph, D.; Crowell & Moring LLP, P.O. Box 14300, Washington, DC 20044-4300 (US).

(21) International Application Number: PCT/US2003/033707 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 23 October 2003 (23.10.2003) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English (26) Publication Language: English

(30) Priority Data: 60/420,285 23 October 2002 (23.10.2002) US (71) Applicant (*for all designated States except US*): LUDWIG INSTITUTE FOR CANCER RESEARCH [US/US]; 605 Third Avenue, New York, NY 10158 (US).

(72) Inventors; and (75) Inventors/Applicants (*for US only*): SCANLAN, Matthew [US/US]; Ludwig Institute for Cancer Research, 605 Third Avenue, New York, NY 10158 (US). RITTER, Gerd [DE/US]; Ludwig Institute for cancer Research, 605 Third Avenue, New York, NY 10158 (US). OLD, Lloyd [US/US]; Ludwig Institute for Cancer Research, 605 Third Avenue, New York, NY 10158 (US). JUNGBLUTH, Achim [DE/US]; Ludwig Institute for Cancer Research, 605 Third Avenue, New York, NY 10158 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/037999 A2

(54) Title: A34 AND A33-LIKE 3 DNA, PROTEINS, ANTIBODIES THERETO AND METHODS OF TREATMENT USING SAME

(57) **Abstract:** Polynucleotide molecules and polypeptide molecules A34 and A33-like 3 are described, as well as antibodies to polypeptide molecules A34 and A33like 3. Also described are methods of detecting cancers expressing these polypeptides, and methods and kits for diagnosing said cancers, and methods of inhibiting effects of a cancer in a patient.